



SEQUENCE LISTING

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NOV 12 2003

TECH CENTER 1600/2900

<110> SHAO, Wei et al.

<120> ISOLATED HUMAN TRANSPORTER PROTEINS,
NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
AND USES THEREOF

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Leu	Met	Ile	Lys	Thr	Ile	Thr	Leu	Val	Leu	Ala	Val	Ala	Ser	Gly	Leu	210	215	220
Ser	Leu	Gly	Lys	Glu	Gly	Pro	Leu	Val	His	Val	Ala	Cys	Cys	Cys	Gly	225	230	235
Asn	Ile	Phe	Ser	Tyr	Leu	Phe	Pro	Lys	Tyr	Ser	Thr	Asn	Glu	Ala	Lys	245	250	255
Lys	Arg	Glu	Val	Leu	Ser	Ala	Ala	Ser	Ala	Ala	Gly	Val	Ser	Val	Ala	260	265	270
Phe	Gly	Ala	Pro	Ile	Gly	Gly	Val	Leu	Phe	Ser	Leu	Glu	Glu	Val	Ser	275	280	285
Tyr	Tyr	Phe	Pro	Leu	Lys	Thr	Leu	Trp	Arg	Ser	Phe	Phe	Ala	Ala	Leu	290	295	300
Val	Ala	Ala	Phe	Val	Leu	Arg	Ser	Ile	Asn	Pro	Phe	Gly	Asn	Ser	Arg	305	310	315
Leu	Val	Leu	Phe	Tyr	Val	Glu	Tyr	His	Thr	Pro	Trp	Tyr	Leu	Phe	Glu	325	330	335
Leu	Phe	Pro	Phe	Ile	Leu	Leu	Gly	Val	Phe	Gly	Gly	Leu	Trp	Gly	Ala	340	345	350
Phe	Phe	Ile	Arg	Ala	Asn	Ile	Ala	Trp	Cys	Arg	Arg	Arg	Lys	Ser	Thr	355	360	365
Lys	Phe	Gly	Lys	Tyr	Pro	Val	Leu	Glu	Val	Ile	Ile	Val	Ala	Ala	Ile	370	375	380
Thr	Ala	Val	Ile	Ala	Phe	Pro	Asn	Pro	Tyr	Thr	Arg	Leu	Asn	Thr	Ser	385	390	395
Glu	Leu	Ile	Lys	Glu	Leu	Phe	Thr	Asp	Cys	Gly	Pro	Leu	Glu	Ser	Ser	405	410	415
Ser	Leu	Cys	Asp	Tyr	Arg	Asn	Asp	Met	Asn	Ala	Ser	Lys	Ile	Val	Asp	420	425	430
Asp	Ile	Pro	Asp	Arg	Pro	Ala	Gly	Ile	Gly	Val	Tyr	Ser	Ala	Ile	Trp	435	440	445
Gln	Leu	Cys	Leu	Ala	Leu	Ile	Phe	Lys	Ile	Ile	Met	Thr	Val	Phe	Thr	450	455	460
Phe	Gly	Ile	Lys	Val	Pro	Ser	Gly	Leu	Phe	Ile	Pro	Ser	Met	Ala	Ile	465	470	475
Gly	Ala	Ile	Ala	Gly	Arg	Ile	Val	Gly	Ile	Ala	Val	Glu	Gln	Leu	Ala	485	490	495
Tyr	Tyr	His	His	Asp	Trp	Phe	Ile	Phe	Lys	Glu	Trp	Cys	Glu	Val	Gly	500	505	510
Ala	Asp	Cys	Ile	Thr	Pro	Gly	Leu	Tyr	Ala	Met	Val	Gly	Ala	Ala	Ala	515	520	525
Cys	Leu	Gly	Gly	Val	Thr	Arg	Met	Thr	Val	Ser	Leu	Val	Val	Ile	Val	530	535	540
Phe	Glu	Leu	Thr	Gly	Gly	Leu	Glu	Tyr	Ile	Val	Pro	Leu	Met	Ala	Ala	545	550	555
Val	Met	Thr	Ser	Lys	Trp	Val	Gly	Asp	Ala	Phe	Gly	Arg	Glu	Gly	Ile	565	570	575
Tyr	Glu	Ala	His	Ile	Arg	Leu	Asn	Gly	Tyr	Pro	Phe	Leu	Asp	Ala	Lys	580	585	590
Glu	Glu	Phe	Glu	Phe	Thr	His	Thr	Thr	Leu	Ala	Ala	Asp	Val	Met	Arg	595	600	605
Pro	Arg	Arg	Asn	Asp	Pro	Pro	Leu	Ala	Val	Leu	Thr	Gln	Asp	Asn	Met			

610		615		620
Thr Val Asp Asp Ile Glu Asn Met Ile Asn Glu Thr Ser Tyr Asn Gly				
625		630		635
Phe Pro Val Ile Met Ser Lys Glu Ser Gln Arg Leu Val Gly Phe Ala				640
	645		650	655
Leu Arg Arg Asp Leu Thr Ile Ala Ile Glu Ser Ala Arg Lys Lys Gln				
	660		665	670
Glu Gly Ile Val Gly Ser Ser Arg Val Cys Phe Ala Gln His Thr Pro				
	675		680	685
Ser Leu Pro Ala Glu Ser Pro Arg Pro Leu Lys Leu Arg Ser Ile Leu				
	690		695	700
Asp Met Ser Pro Phe Thr Val Thr Asp His Thr Pro Met Glu Ile Val				
705		710		715
Val Asp Ile Phe Arg Lys Leu Gly Leu Arg Gln Cys Leu Val Thr His				720
	725		730	735
Asn Gly Arg Leu Leu Gly Ile Ile Thr Lys Lys Asp Ile Leu Arg His				
	740		745	750
Met Ala Gln Thr Ala Asn Gln Asp Pro Ala Ser Ile Met Phe Asn				
	755		760	765

<210> 6
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 <212> PRT
 <213> *Xenopus laevis*

<400> 6
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1 5 10 15
Asn Ile Pro Leu Arg Asp Leu His Lys Arg Gly Thr His Tyr Thr Val
20 25 30
Thr Asn Gly Gly Ala Ile Asn Ser Thr Thr His Leu Leu Asp Leu Leu
35 40 45
Asp Glu Pro Ile Pro Gly Val Gly Thr Tyr Asp Asp
50 55 60

<210> 7
 <211> 4
 <212> PRT
 <213> *Homo sapiens*

<400> 7
Asn Glu Thr Thr
1

<210> 8
 <211> 4
 <212> PRT
 <213> *Homo sapiens*

<400> 8
Asn Thr Ser Glu
1

<210> 9
<211> 4
<212> PRT
<213> Homo sapiens

<400> 9
Asn Ala Ser Lys
1

<210> 10
<211> 4
<212> PRT
<213> Homo sapiens

<400> 10
Asn Met Thr Val
1

<210> 11
<211> 4
<212> PRT
<213> Homo sapiens

<400> 11
Asn Glu Thr Ser
1

<210> 12
<211> 4
<212> PRT
<213> Homo sapiens

<400> 12
Lys Lys Glu Ser
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<210> 13
<211> 4
<212> PRT
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<400> 13
Arg Arg Lys Ser
1

<210> 14
<211> 4
<212> PRT
<213> Homo sapiens

<400> 14
Arg Lys Ser Thr

1

<210> 15
<211> 4
<212> PRT
<213> Homo sapiens

<400> 15
Ser Ala Trp Glu
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<210> 16
<211> 4
<212> PRT
<213> Homo sapiens

<400> 16
Ser Leu Tyr Asp
1

<210> 17
<211> 4
<212> PRT
<213> Homo sapiens

<400> 17
Thr Thr Phe Glu
1

<210> 18
<211> 4
<212> PRT
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<400> 18
Thr Phe Glu Glu
1

<210> 19
<211> 4
<212> PRT
<213> Homo sapiens

<400> 19
Thr Trp Ala Glu
1

<210> 20
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<212> PRT
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<400> 20
Ser Thr Asn Glu
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<210> 21
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<212> PRT
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<400> 21
Ser Leu Glu Glu
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<210> 22
<211> 4
<212> PRT
<213> Homo sapiens

<400> 22
Ser Leu Cys Asp
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<210> 23
<211> 4
<212> PRT
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<400> 23
Thr Val Asp Asp
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<210> 24
<211> 4
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<400> 24
Ser Ile Leu Asp
1

<210> 25
<211> 4
<212> PRT
<213> Homo sapiens

<400> 25
Thr Val Thr Asp
1

<210> 26

<211> 4
<212> PRT
<213> Homo sapiens

<400> 26
Thr Pro Met Glu
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<210> 27
<211> 4
<212> PRT
<213> Homo sapiens

<400> 27
Thr Lys Lys Asp
1

<210> 28
<211> 6
<212> PRT
<213> Homo sapiens

<400> 28
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1 5

<210> 29
<211> 6
<212> PRT
<213> Homo sapiens

<400> 29
Gly Ala Leu Ala Gly Leu
1 5

<210> 30
<211> 6
<212> PRT
<213> Homo sapiens

<400> 30
Gly Ile Cys Leu Ser Ala
1 5

<210> 31
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<212> PRT
<213> Homo sapiens

<400> 31
Gly Ser Asn Glu Thr Thr
1 5

<210> 32
<211> 6
<212> PRT
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<400> 32
Gly Leu Ser Leu Gly Lys
1 5

<210> 33
<211> 6
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<400> 33
Gly Asn Ile Phe Ser Tyr
1 5

<210> 34
<211> 6
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<400> 34
Gly Val Ser Val Ala Phe
1 5

<210> 35
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<212> PRT
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<400> 35
Gly Ala Pro Ile Gly Gly
1 5

<210> 36
<211> 6
<212> PRT
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<400> 36
Gly Val Leu Phe Ser Leu
1 5

<210> 37
<211> 6
<212> PRT
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<400> 37
Gly Val Phe Gly Gly Leu
1 5

<210> 38
<211> 6
<212> PRT
<213> Homo sapiens

<400> 38
Gly Gly Leu Trp Gly Ala
1 5

<210> 39
<211> 6
<212> PRT
<213> Homo sapiens

<400> 39
Gly Leu Trp Gly Ala Phe
1 5

<210> 40
<211> 6
<212> PRT
<213> Homo sapiens

<400> 40
Gly Val Tyr Ser Ala Ile
1 5

<210> 41
<211> 6
<212> PRT
<213> Homo sapiens

<400> 41
Gly Ala Ile Ala Gly Arg
1 5

<210> 42
<211> 6
<212> PRT
<213> Homo sapiens

<400> 42
Gly Ala Ala Ala Cys Leu
1 5

<210> 43
<211> 6

<212> PRT
<213> Homo sapiens

<400> 43
Gly Ile Tyr Glu Ala His
1 5

<210> 44
<211> 6
<212> PRT
<213> Homo sapiens

<400> 44
Gly Ile Val Gly Ser Ser
1 5

<210> 45
<211> 6
<212> PRT
<213> Homo sapiens

<400> 45
Gly Leu Arg Gln Cys Leu
1 5

<210> 46
<211> 601
<212> DNA
<213> Homo sapiens

<400> 46
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ttgaactctg atcttcaata agcattgtgc ggtttttgtt tttgttttta atgacagttt 120
taaacaagaa agttgcttta tttctgaact tcataaaaat ttctattaaa gagacaattt 180
ctgaatttta taacaatttc tagaacagtt gagtacctca ctttgagaca ctttttgct 240
aaaagttaaa aacacaaaac ctttatgaga taaaatagga agctagtaga gataggaaag 300
ycctctgctt agtaaacctc ttttttgctt agtttagaca catacaatag taaagttact 360
tagtacgttg atagttttct ttctcctcaa aagctacaat gtcttactag ctagtccctt 420
caagaaagga aacaagaagc cgctggagga gattggtgag tgggataaaa cactattcaa 480
ctcttcagtt attcggtttt taaatcctca atgaaaggct gctgtattat agagtatttt 540
ttttttattt ttaatagact tagaaccaag tttcttgaga aacctttggc atattgtagt 600
t 601

<210> 47
<211> 601
<212> DNA
<213> Homo sapiens

<400> 47
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aaagttaaaa acacaaaacc cttatgagat aaaataggaa gctagtagag ataggaaagt 120
cctctgctta gtaaacctct tttttgctga gtttagacac atacaatagt aaagttactt 180
agtacgttga tagttttctt tctcctcaa agctacaatg tcttactagc tagttccttc 240
aagaaaggaa acaagaagcc gctggaggag attggtgagt gggataaaac actattcaac 300

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ycttcagtta ttcgggtttt aaatcctcaa tgaaaggctg ctgtattata gagtattttt 360
tttttatttt taatagactt agaaccaagt ttcttgagaa acctttggca tattgtagtt 420
tttttatggc tatgactcac atgacattac tgtataaaac tagtacattc tctcgtaaaa 480
ccacacaaac ttactagagt gctgctctca tttttctaca ttagaaatga aaaagggcat 540
tgtctgcatt caaaatttcc tttttacatc tctgtattac tttttccctt ttatatattat 600
c 601

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<210> 48
 <211> 526
 <212> DNA
 <213> Homo sapiens

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<400> 48
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tttggctcat actttaatca tgaggctaaa ctgcttctct ctacacgtat cttcatagta 120
acttggtgtt taagtctggt agaagcataa gaagtttaaa cacagacaga atcctgtgga 180
agttagtaaa tttctagtga acgatagaaa tgatagaaat ctcttcttcc cccaaagtcc 240
caagaacaga ttagtctgct tttgacaagt gttatcaaag tagactgttc tcacatacac 300
rggggactca atagggcatt cctggtggat ataataaaat gagtaaattgc gataacagga 360
ggaaatgcct agtgtgttgc tcttgatta gttttgatac aacaaaggca gctttgttgt 420
gagtcagtag agagggtagt gtagaaagg ggaagttgga agagtggcag atcctagagg 480
actaatgatg ggcttaaacc acaaaaagtg tcgctttgcc attgaa 526

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<210> 49
 <211> 601
 <212> DNA
 <213> Homo sapiens

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<400> 49
ataaaatgag taaatgcat aacaggagga aatgcctagt gtgttgctct tggattagtt 60
ttgatacaac aaaggcagct ttgttgtagag tcagtagaga gggtagtgta gaaagggtgga 120
agttggaaga gtggcagatc ctagaggact aatgatgggc ttaaaccaca aaaagtgtcg 180
ctttgccatt gaaataaaaag tttggggtct ttttttttca attttctccc tgaaattatt 240
tcttgacatt cattagctca gcagtgtatc taaataaagc ttttttgggt ttctattata 300
rtagagggtt gttccttttt cttccctttg aaaagtatca ttttttgcac attatttgaa 360
aatccagggt ttatatgata ttcttattgc cagagggaca ttctgcaggc tctttgtaaa 420
atgatttttag gattcagata cttattatat ttttattggc cctaataatt tatccaacta 480
gaaaattaaa cctcttctta aaaattaatc catctaagt tctgtaaatt aaaggaacaa 540
ctaaagattc tttatttggt gtcagaaact ccttgtttct acaacagtag tataaaacaa 600
a 601

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<210> 50
 <211> 601
 <212> DNA
 <213> Homo sapiens

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<400> 50
acatgtaaac caacaatgaa attatttttag tgacttgaga atcaaagtgc tagagtttga 60
atccctgttc tactacttgc tagcgggtgtg accttgggcc tgtttaactc ttgacacctt 120
gttttccaaa tttataaagt ggagataata atatctgtca cattgtgttg ttgtgaggat 180
tatatgaact aatatatgta atgtcctgag aacaatgtct ggtacacatt aagttaatta 240
aaattagctg ttcttactgt tattattaga catgagctag ataacagtgg cctctacatg 300
kgaaagatta ttttaattct gatgtagttc agtttatcta ttttttttat ttttgcct 360
tttgcatgta tgtcatatct aaaaaacctg cctaactcag gatcacaaaa atttactcct 420
gtattttata atttttagctc tttagatcta ggatccattt ttagctaatt tttatatatg 480
gtgtgaggta ggggtacggg ttcattcttt tgcacgtgaa tagccagttg tcccagcatc 540
>atttattcaa aagactattc tttcctcact agaaaaata tttctttaa gaataatgaa 600

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t

601

<210> 51
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 51
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 agctgggact acaggtgtgc accactacac gtggccttcc tgatgaaatt tttaaataccc 120
 aaatatattga gcagaaataa tagcttgtgt ttattgtttt tctactatct gtcaagtata 180
 gtattaaatg ttttacataa tttgtctcca gtccacatac aatactctag tagaagtggg 240
 taacaaaacc aaggtactca aagaggttaa taagtaactt gcgctggatc acagaactaa 300
 ygggaggcag ggctggaatt tgactctagg tctttctgac ctcaaagtgc agtaaagtca 360
 tggaatttct ctactaggcc acctggaaga aaagtgatct tttttccagt cttttttggt 420
 actgtttttc agccaggaga tagtagagtt aggtagtaga atagtagtca ctggcatccg 480
 gtagtcagcc ctccaaaaaa gtttttgatt tttttttttt tttttgtctt aaacttggaa 540
 gctactaact ttcagggtcat actttcttat catccaagag ctggatattt aggtagcaga 600
 a 601

<210> 52
 <211> 601
 <212> DNA
 <213> Homo sapiens

<220>
 <221> variation
 <222> (301)...(301)
 <223> T may be either present or absent

<400> 52
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 tggatcacag aactaacggg aggcagggtc ggaatttgac tctaggtctt tctgacctca 120
 aagtgcagta aagtcattgga atttctctac taggccacct ggaagaaaag tgatcttttt 180
 tccagtcttt tttgttactg tttttcagcc aggagatagt agagttagggt agtagaatag 240
 tagtcactgg catccggtag tcagccctcc aaaaaagttt ttgatttttt tttttttttt 300
 tgtcttaaac ttggaagcta ctaactttca ggtcatactt tcttatcatc caagagctgg 360
 atatttaggt agcagaaact atggaattat cctaagtcct cttgaagctt cagctgttaa 420
 aattaattgg ttctgattaa cactgtgctc aagatttaca tttctaggag ccacagtttg 480
 attgggtctaa cttggatcta tgtgttttct ttagctgggg aggagaaggt atcttgattg 540
 ataccttcac caggactgca tgcagtgagg gacagaagtt tccttaaaat aattggggtc 600
 t 601

<210> 53
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 53
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 aaatatattac tctcctggct ctttgccaac ccgttttaga ttatgagcac tttggcatta 120
 ttatgttttt gttttctttc tatagcacac agtaagatgt tctgccaca ttgtgcataa 180
 tttatgggtt tattcaagga tttatgcaag tgtagctgca agaaaaaac ctagaagtga 240
 acttgctagg ttgaagagca dctgtgtatg tttaaatttg ttagctttcg ccttcccaaa 300
 gggattattc catttcatac ttaaactact aattttgtga taggaattct ttctccatag 360
 ctttgctaaa ttaatgcatt cacacacttc atctttacta atctgataga gggaaatgat 420
 attgtggatt tgatttgcatt ttctttttat gtgttagctt gagcttattt tcatatttaa 480

aagccaattg tattttctttt tcttgagcta tcttttaatg t

521

<210> 54

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> variation

<222> (301)...(301)

<223> T may be either present or absent

<400> 54

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tctgtgtatg ttaaattttg ttagctttcg ccttcccaa gggattattc catttcatac 120
ttaaactact aattttgtga taggacttct ttctccatag ctttgctaaa ttaatgcatt 180
cacacacttc atctttacta atctgataga gggaaatgat attgtggatt tgatttgcatt 240
ttctttttat gtgttagctt gagcttattt tcatatttaa aagccaattg tattttctttt 300
tcttgagcta tcttttaatg tccttcctga tacattttctg aagtctgtga tactcatata 360
agatatatgg tgaacatgtg tcaaagattt atttgactct aatgagggaa cccgcctgat 420
gacaaggctg attgagaaga ggatgtgtga gatgaagtgt atatcatcag tgaaagaaag 480
caaattctta cagggcaaaa acaaaaccac aactctaagg gttattgttt ctactggaca 540
gaattcattt gcattttacc agataaaaat tactattttc aatttatctt ttacaaatca 600
t 601
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<210> 55

<211> 601

<212> DNA

<213> Homo sapiens

<400> 55

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gatgtgtgag atgaagtgtg tatcatcagt gaaagaaagc aaattcttac agggcaaaaa 120
caaaaccaca actctaaggg ttattgtttc tactggacag aattcatttg cattttacca 180
gataaaaatt actattttca atttatcttt tacaatcat tttctaattt tacagagtct 240
attccctaata cagtagtaaa tagtcttcaa aattctccgc agcgtcagggt gactattatg 300
maggctaatt gttgacactc gggcttgact ttaagagaac atgccataat cttttggcct 360
tacttccaag ttttgataaa tttttcttaa cacatttttc tctaattgca atgatttcaa 420
gtgatattat ttcttttttt taaatttttt tactatttat tgatcactct tgggtgtttc 480
tcggagaggg ggatttggca gggcataggg acaatagtgg agggaagggtc agcagataaa 540
catgtgaaca aaggtctctg gttttcctag gcagaggacc ctgcggcctt ccacagtgtt 600
t 601
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<210> 56

<211> 601

<212> DNA

<213> Homo sapiens

<400> 56

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atztatcttt tacaatcat tttctaattt tacagagtct attccctaata cagtagtaaa 120
tagtcttcaa aattctccgc agcgtcagggt gactattatg caggctaatt gttgacactc 180
gggcttgact ttaagagaac atgccataat cttttggcct tacttccaag ttttgataaa 240
tttttcttaa cacatttttc tctaattgca atgatttcaa gtgatattat ttcttttttt 300
waaatttttt tactatttat tgatcactct tgggtgtttc tcggagaggg ggatttggca 360
gggtcatagg acaatagtgg agggaagggtc agcagataaa catgtgaaca aaggtctctg 420
gttttcctag gcagaggacc ctgcggcctt ccacagtgtt tgtgtccctg ggtacttgag 480
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attagggagt ggtgatgact cttaatgagc atgctgcctt caagcatctg ttttaacaaag 540
cacatcttgc accgccctta atccctttaa ccctgagttg acatagcaca tgtttcagag 600
a 601

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<210> 57
<211> 601
<212> DNA
<213> Homo sapiens

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<400> 57
tttttttttt ggaggtcggg ggactgtcgc ccattctggt gcccactg gagtgcagtg 60
gtgcaatctt ggctcactgc aacctctgcc tcccaggttc aagcgattct tgtactcagc 120
ctcctgagta gctggaatta taggtgtgtg ccatcatgcc aagctaattt ttgtattttt 180
agtagagatg aagtttcgcc atgttggcga ggctagtctc agactcctgg cctcaagtga 240
ttggctgacc tcagcctccc aaagtagaaa atcttcttga aaaataaaat tccaaatctc 300
raaaggccct atataatttt ggtgttgga atttacttgt caatgaaaat gactattttac 360
acaaattata agcttccata ttaatatata tgtgtgtgaa cctgaaattc aaattttatt 420
atattgttta tgaaaggtag agcctctgag attcatcaga tgggtatttac ctttagggca 480
tatctaaaaa taaaatacag tacatgaaat ccagtgtttt aatccagtga ttcttaaaact 540
ttttgctctc agatcccctt taaactctta aaagatattg aagagctcca aggaggcttt 600
g 601

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<210> 58
<211> 601
<212> DNA
<213> Homo sapiens

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<400> 58
gactctacca atgggatcgg agctctccaa acctgcatat taaaaggcct ataagttttg 60
gggggtccct ttgtccacat gattattctg taatacattg tatttatgga catggtatta 120
ttatacacag atcctgtctt ttaaagaaca ttataatcca cttaactgct aggaccagag 180
aatgaccgat aattcaaacc atattgtctt acagaagaca tatataaaag atgggttatgt 240
gtaccaattg aggttcaa attgattcaat ttaaaacaat ctaggccaga ttttatatag 300
wttgtggacc ctttgcactc aaatctcaag gttcttatta aaatgcagat cttggctggg 360
cacggtggct cacacctgta atcccagcac tttgggagcc caaggcagggt agatcatttg 420
agctcagaag ttcaagacca gtctggccaa catagcgagg cccagtctca ttgaaagaaa 480
aaaaattttt taataaaaaa taaaagcaga tcttgggtaa agacatgtag tctgggtttac 540
aggtattaac aactgtctgt aatgtagtga ttttgcctca gacttacctt ttccattatt 600
t 601

```

```

<210> 59
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 59
ttactgtgaa ggctgatttt tttttctctt caccactaat ttaacacatg actaggcaaa 60
ttttcagact atttagttaa acatcaagag cctggaagaa gtatcttgtg acctaatgtt 120
ctttgacggg ttagttgtta ctttgcgtgt atgacctga attttttttt tttgagactg 180
agtcttgtgc tgcgcccag actggagtgc agtggcgcaa tctcagctca ctgcaacctc 240
tgcgtcccag gctcaagcaa ttcttgtgtc tcagcctcct gaggagtgtc gattgcaggc 300
mctgtcacc atgccctgct aatttttgca tttttttgtt tgtttttttt ttttagtaga 360
gatgggggtt caccatgttg gccaggctgg tctcaaactc ctaacctcaa gtgatcaccc 420
gcctcagcct cccaaagtgc tgggattaca ggtgtgagcc accacacgtg gctatgaccc 480
tgattttgat tcattcactt tttataatta ccttttgatt agataagtta attattcttg 540
aatttggcca ttttatgctt tgagaaagta gttaatcaca gtgggtcaac agtacaaact 600
t 601

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<210> 60
 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 60
 atccatcacc tcaagcattt atcccttgtg ttacaaacaa tccaattaca ctcttaatta 60
 tttttaagt tacaattaaa ttattgaata tagttcaaag acttcttcat tcatgactag 120
 cacctaggct aaaaaaattc agacacctgg gctcctggga tcaatcacgc atactgtgtc 180
 tcttgtgtc actcccrctg tctctctctc tttctctcgc ttcctttttc ctctctctct 240
 gtgggttttct aggggtgggtg cctcagggaa ttggatttct tatattatag ctcaggattc 300
 ccaagagggc tgtttttaat gtagccaaag aagtcttgca gcgtgacttg ttttattcta 360
 ttcattgagg tagtcacaga ggccccacca cat 393

<210> 61
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 61
 tacaattaaa ttattgaata tagttcaaag acttcttcat tcatgactag cacctaggct 60
 aaaaaaattc agacacctgg gctcctggga tcaatcacgc atactgtgtc tcttgtgtc 120
 actcccgctg tctctctctc tttctctcgc ttcctttttc ctctctctct gtgggttttct 180
 aggggtgggtg cctcagggaa ttggatttct tatattatag ctcaggattc ccaagagggc 240
 tgtttttaat gtagccaaag aagtcttgca gcgtgacttg ttttattcta ttcattgagg 300
 yagtcacaga ggccccacca cattcagagg agggacatac acttgctggg acaagtgtaa 360
 gagaattcat gatcatgttt taaaaccact tttattagtt tcctattgct gctgtaataa 420
 attaccacaa cttaatggct taaaagccac acaaatttaa tatcttacag ttctgcaaata 480
 caaaagtctg aaacggatct cactgtgcta aaattaaggt gttcgtaggg cattctggag 540
 gctgtaggag agagtcttgt tttttgcctt ttctggctat taaaagctgc cagcattcct 600
 t 601

<210> 62
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 62
 tgtatatcag tcaaaatatt gggcaactct gataagtttg tccacttaac attgtaccac 60
 ttaagatgaa tagcatctac catttccgctc atttgtaaat atataggagg acataatcac 120
 ataactctga agtaaaagac agtgcttaaa actgaatcag ttaagtttta tgaaaaatac 180
 ttcataattgt acttttaaaa atatataatt ttttaattca atagcttttg gggtacaagt 240
 gggttttggtt acgtggatga attctataat ggtgaagtct aagattttac tgcaactgtc 300
 rccaagtag tatatattgt atccagcata ttgtcctttt ttttttcttt tttttttttc 360
 atttcaccat ggactaatga aaattttgtt agggactgac attagggcac ccttgagcta 420
 ccttgagcta aaggaaataa cccttgatgt tttttctggt tggcctagag aatgtgggtt 480
 gttttgtaac tgaattcatg ggattgttaa ggtacaagat tttgcttttag ttttatttgt 540
 actaggattt tgctatatta atacaatgtg aaaagaatca aaagtgttag aaataaatgc 600
 a 601

<210> 63
 <211> 505
 <212> DNA
 <213> Homo sapiens

<400> 63

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gaagagtaga acatgaggct ttatttaaaa gattagcaga atttaaggaa aaggtagactt 60
tggtgaagat tataatgtga agacaaagga acgaggatgg gaataaatTT tgtattcatg 120
aggctttgaa gaaattgact ctagagagta tattttgggt acttttggga aatgaagttg 180
gattagttag aaggaacaga ttatgaaaag acaagaaacc tgattaatgt caggatgatt 240
ttatatttga agytgggtcag atttatggca gtccctggctt tgccattttt agtttgatga 300
ctttgagaaa gttccttctt gaagttttta ttttctgtat ataaaaagta ataacacctg 360
gtgatctgct aggtttgttt tgaggattat atgagataaa atgcatgcaa aactgttata 420
atagtgcctg gtaaaataag tgcctagttt taaaaacaag tctttgtaaa ctgcttagga 480
catgcctggg atagggtagg tatgt 505

```

<210> 64

<211> 601

<212> DNA

<213> Homo sapiens

<400> 64

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gactttgaga aagttccttc ttgaagtttt aattttctgt atataaaaag taataacacc 60
tggtgatctg ctaggtttgt tttgaggatt atatgagata aaatgcatgc aaaactgtta 120
taatagtgcc tggtaaaata agtgcctagt tttaaaaaca agtctttgta aactgcttag 180
gacatgcctg gtatagggta ggtatgtaat acatagtagg taggatctgt ctccttgcta 240
tttttaggta aaaaaacaaa aggaagagct tcagcttaat acagtatgaa ctgacgagcc 300
ytggtagggt tttgagcaaa agagcaacac agtaaaagta gtacttagga aagattaaca 360
agggaaacatg gcttatacag tggtaatggg gcctggagtc aaggaggtaa gataaaatgg 420
tattataatt aaggaatagc caggcacgat ggcacatgca tgtaatgcca gctactggag 480
aggctgaggt gggaggatca tgggagtcga ggagtttgag accagcctgg gcaactgagt 540
gagaccccaa atcctaaaaa atacaaagta aaaaaggaat aaagtcatga gggcttggac 600
t 601

```

<210> 65

<211> 601

<212> DNA

<213> Homo sapiens

<400> 65

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gctttgtcac ccaggctgga gtgtgggtgg atgatcatgg ctgactgcag ccctgacctt 60
ccgggctcaa gtgatctttc cacctcagcc tcccaattac ttgggaccac cagcatgctt 120
ggccgatttt tttttttttt ttttttttgt agaagcaagg tttccctatg ttgccaaggc 180
tggtcttgaa ctttagggct catgtgatac tcctgcctcg gcctcccaaa gtgttaggat 240
tacaagcctg agccaccatg gccggccaaa atattttcac tataacaaat atcatatctg 300
katatactca gttttaatac taactcaaag tagaaacata aagctgaatg actattttat 360
tttcagattc tctccattga gtttccttct cctctctgtg tgatctctga acttttctcc 420
atctttgcc a tttcttgtct agcatttttt ttttatcagc agtttcattc agattttttt 480
tttagttctt tcaacgggtg agtggaagta ggcagcagga cagaagaact tgaagcagag 540
cacactggag aggagaaatt aacaaagcct ttatgaataa aacaaccccc caatatcagt 600
c 601

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<210> 66

<211> 601

<212> DNA

<213> Homo sapiens

<400> 66

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tggtttatgc cctgttaact cttacatcat tagtttttag cccaaaagga aacagcaaatt 60
aatgttttat atgagccaca ttttgcgttg attttccttc cactctgtaa aattactaaa 120
gcagcactct gactttatta tgctcaaacc gctcttctcc attaatgtgt gtttctccat 180
cttttaggg ttttacttta taaatacaga gattactgtg taaaattcta aatttgccac 240
tggttcgtta tacatttgta accttcctca cagtatattt tgtgatttgg cagagtttac 300

```

```

yaatatagat gatactaact gaaattaatc attctgtata attggataga aaagcatgag 360
taagaattca attggtatta tattttaatta attgccaaaga ttttcacatt tcctgactac 420
aacaataaaa tcaaatgaat tgatggctta aaaaaaagaa atctcaaag tttagtcaat 480
gaagaacatc tattgaatga gtgaatgttc attatatata gtgcattttc tgagcttttt 540
tggaggggga agttgctccc atgctctgag aactttttaag gatcgataca ttattttttaa 600
c 601

```

```

<210> 67
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 67
gtttatattg ccacattaat ttccattata aaaccagtaa ccatagtttt gttttaatta 60
gcaatctaata ttttttcatt tatcctcatt atgagaattt atgtccatca ctttgcttga 120
tgtgataaca gtgacatgct aaatgagaaa caattgttat ttagaaaaaa atgcacaaag 180
tgaaagtcct tttaatccct aatcataaat acattttatt agcttacttt aagaagtggc 240
agtcacagct cctgaacatt agggagtgtt tcttttggtc agcattattt atttagtgca 300
mattgccttt aattttaatt tgaaattata gtaaaatcca cgggagtttt taagtctcct 360
cacagccttt tgctaccttt tcaccaaggt agatccagat gataactgct gtgttgtagc 420
atcatagaaa ttagaaaaat attttcctct gaggaagaaa cattgtaaat gaaactctac 480
atatcagagg tctatagcta tgtatcaata ttaagtttct tttgtacttt gctttgtagt 540
catcttcatt ccaaactttc ataattatta tttttacttt aaaaagaaaa ataaccacc 600
a 601

```

```

<210> 68
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 68
aaaaaaagga aaacattgat aagtgtccta gaaacttgga ttcttttata gatttgttct 60
tggggctctg atgtttggga ttgacgttct gtgctgacca ttttatatgc attttatctt 120
aatagtagtg gctttcatga agattctgat acaagtgggc aatccttaaa ttatctttga 180
aaaattgggt aattttgggt aaaaaagga aagtggctgg gtgcagtggc tcacgcctgt 240
aatccccagc actttgggag gccgggacgg gtggatcaca aggtcaggag ttgaagccca 300
ktctggccaa catggtgaaa ccctgtctct actgaaaata attggggcat ggtggcacat 360
gcctgtaatc ccagctactt gggaagctga ggcaggagaa ttgcttgaac cggggaccca 420
ggaggcggag gttgcagtga gctgagatcg cgccactgca ctccagcctg ggctacagag 480
cgagactctg tctcaaaaaa taaataaata aataaatgaa aaagagaaaa tattgagagg 540
atttggatcat cattttactg ctctcttcat gtgatggaaa tcaattttcc ttctcaaagt 600
g 601

```

```

<210> 69
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 69
gagatgtact gtgattttac tgaggtttca tcacaagaag ggagtgtttc ttgtgccatt 60
aaccatgtag tttgtaccat cactaaatgc ttggaacagt acacatgcac cacaacaaag 120
gctcatcaaa caggtaaagt ctcgaaggaa gcgagaacga aatctctcat tgtgtgccgt 180
gtggctcaaa accgaaaaca atgaagcttg gttttaaagg ataaagtttt cttttttgtt 240
ttcctctcag actttatgga taatgtgacc gggctcttatg caaattttct atttctaaaa 300
stactactat gatatacaag tgctgttgag cataattaaa taaaatgctg ctgctttgac 360
agtaaagaga aggaagtatt ctgattagct gtatctggta ttaattgcat gttaaaacac 420
tgggaattttt aaaattgaaa ttagatcagt cattcttttc ttttctcaag atatctcatg 480

```

```

gctgacactg aagaagaaat gtaattcata acttgacta aatgtatatt ttttttctta 540
aaaatttacc attcttattt atattttttat ggattaaaaat ttataaaaata cagatcagtt 600
a 601

```

```

<210> 70
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 70
tgtgccgtgt ggctcaaaac cgaaaacaat gaagcttggt tttaaaggat aaagttttct 60
tttttgtttt cctctcagac tttatggata atgtgaccgg gtcttatgca aattttctat 120
ttctaaaact actactatga tatacaagtg ctggtgagca taattaaata aaatgctgct 180
gctttgacag taaagagaag gaagtattct gattagctgt atctggtatt aattgcatgt 240
taaaacactg gaatttttaa aattgaaatt agatcagtc tttttttctt ttctcaagat 300
rtctcatggc tgacactgaa gaagaaatgt aattcataac ttgactaaa tgtatatttt 360
ttttcttaaa aatttaccat tcttatttat atttttatgg attaaaattt ataaaatata 420
gatcagttaa tattgcactt aagtaatttt acctttttta tgtgattttt atagaataat 480
tcagacttac aaatacagag atatgaacaa agtttacagt gggaaacaaag gtttaaaaaa 540
aggttggtgt tctctctctg tgatccagtg tgcacataaa cttttctctg atctttcact 600
g 601

```

```

<210> 71
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 71
tgctgctgct ttgacagtaa agagaaggaa gtattctgat tagctgtatc tggattattaat 60
tgcattgttaa aacactggaa tttttaaaaat tgaaattaga tcagtcattc ttttcttttc 120
tcaagatatc tcatggctga cactgaagaa gaaatgtaat tcataacttg cactaaatgt 180
atattttttt tcttaaaaaat ttaccattct tatttatatt tttatggatt aaaatttata 240
aaatacagat cagttaatat tgcacttaag taattttacc tttttaatgt gatttttata 300
raataattca gacttacaaa tacagagata tgaacaaagt ttacagtggg aacaaagggt 360
taaaaaaagg ttgtggttct ctctctgtga tccagtgtgc acataaacct ttctctgatc 420
tttactgccc atcctctgga ttatgtcttc tgacctgtcc attttgacce attactgga 480
aagttgaaaa actacattaa ctggaaagtt gaaaaactac attacttttg agaataaaaac 540
cgaaagttcg tgtatacctt cttaaaaaaa aatcaaaccc aaaaatgtga aaacaataga 600
a 601

```

```

<210> 72
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 72
aaaaaagggt gtggttctct ctctgtgate cagtgtgcac ataaaccttt ctctgatctt 60
tcaactgcat cctctggatt atgtcttctg acctgtccat tttgacctat taactggaaa 120
gttgaaaaac tacattaact ggaaagttga aaaactacat tactttggag aataaaaccg 180
aaagttcgtg tataccttct taaaaaaaaa atcaaaccac aaatgtgaaa acaatagaat 240
tgcaaagata gcagttaaaa ttttaatctg aaaataacct ttgaatctcg ggctagggtta 300
ygtccatatt tgaagtggtc agtgatgggt tgaacatttt ttgcaggatg agttaaaatg 360
cactggatta ttttgggat ttttgttttt ggaattgtct gttttaatca cagccttaat 420
tcacaattgg caaaggcagt ttactcaaag gactgggcta aatattctgt aattatgcat 480
ttttgatagg aaaatgaaat ttttgcaaac agacattttc tttttttttg gctggagtg 540
agtggggcat ggtcttggct cactgcagcg ttgaccacct gggctcaagt gatactccc 600
c 601

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